## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/21317

TO THE STATE OF SUBJECT MATTER					
A. CLASSIFICATION OF SUBJECT MATTER					
IPC(7) : B21D 53/08;					
US CL : 72/379.2					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols)					
U.S.: 72/379.2; 29/890.046, 890.047; 165/151, Dig.502					
0.0.1,72277.12,077					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
Electronic Limited States					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where appropriate, of the relevant passages			Relevant to claim No.	
Y	US 1,853,315 A (MODINE) 12 April 1932 (12.04.1932), See whole document. 1-49				
1 .					
A	US 2,047,207 A (KRACKOWIZER) 14 July 1936 (14.07.1936), See whole document.				
^	A US 2,047,207 A (Medicine William)				
١ ,	A US 3,510,930 A (ODDY) 12 May 1970 (12.05.1970), See whole document.				
^	A US 3,510,930 A (ODDY) 12 May 1970 (12.05.1970), See whole document.				
Y	Y US 5,170,842 A (KATO et al.) 15 December 1992 (15.12.1992), See whole document.			1-49	
1 1	US 3,170,642 A (KATO et al.) 13 December 1772 (15:12:1772), See Made				
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Everbo	er documents are listed in the continuation of Box C.		See patent family annex.		
			<u> </u>	marianal Glina data or majority	
Special categories of cited documents:			later document published after the inte date and not in conflict with the applic	ention but cited to understand the	
"A" documen	nt defining the general state of the art which is not considered to be		principle or theory underlying the inve		
	ular relevance	4379	decrease of mentionles relationses the	claimed invention cannot be	
#55!i	application or patent published on or after the international filing date	"X"	document of particular relevance; the considered novel or cannot be conside	red to involve an inventive step	
•			when the document is taken alone	•	
"L" documer	nt which may throw doubts on priority claim(s) or which is cited to	44/5	document of particular relevance; the	claimed invention cannot be	
	the publication date of another citation or other special reason (as	"Y"	considered to involve an inventive step		
specified)			combined with one or more other such	documents, such combination	
"O" document referring to an oral disclosure, use, exhibition or other means			ting obvious to a person skilled in the	e arı	
"P" document published prior to the international filing date but later than the		*& <b>*</b>	document member of the same patent	family	
priority date claimed					
Date of the actual completion of the international search			21 FED 20	NE TOPOLI	
03 February 2005 (03.02.2005)			₩ <del>1</del> Γ C D Z U	קא	
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